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- ☐ 1. Document ID: TW 445165 A, WO 200010665 A1, JP 2000061151 A, JP 2000279647 A, JP 2000350871 A, GB 2354181 A, EP 1108454 A1, CN 1304327 A, KR 2001052477 A

L4: Entry 1 of 1

File: DWPI

Jul 11, 2001

DERWENT-ACC-NO: 2000-224576

DERWENT-WEEK: 200221

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446

264

TITLE: Elastic doll; has skeletal parts with metal cores at joints and hard synthetic resin at distal ends and between joints and buried in trunk, arms and legs

INVENTOR: EJIMA, T; MATSUOKA, H

PATENT-ASSIGNEE:

ASSIGNEE

TAKARA CO LTD

CODE

TAKH

PRIORITY-DATA: 1999JP-0216424 (July 30, 1999), 1998JP-0238337 (August 25, 1998),
1999JP-0089737 (March 30, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
TW 445165 A	July 11, 2001		000	A63H009/00
WO 200010665 A1	March 2, 2000	J	050	A63H003/36
JP 2000061151 A	February 29, 2000		004	A63H009/00
JP 2000279647 A	October 10, 2000		008	A63H003/04
JP 2000350871 A	December 19, 2000		007	A63H009/00
GB 2354181 A	March 21, 2001		000	A63H003/36
EP 1108454 A1	June 20, 2001	E	000	A63H003/36
CN 1304327 A	July 18, 2001		000	A63H003/36
KR 2001052477 A	June 25, 2001		000	A63H003/04

DESIGNATED-STATES: CN GB KR US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
TW 445165A	August 24, 1999	1999TW-0114431	
WO 200010665A1	August 23, 1999	1999WO-JP04526	
JP2000061151A	August 25, 1998	1998JP-0238337	
JP2000279647A	March 30, 1999	1999JP-0089737	
JP2000350871A	July 30, 1999	1999JP-0216424	
GB 2354181A	August 23, 1999	1999WO-JP04526	
GB 2354181A	November 24, 2000	2000GB-0028760	
GB 2354181A		WO 200010665	Based on
EP 1108454A1	August 23, 1999	1999EP-0938585	
EP 1108454A1	August 23, 1999	1999WO-JP04526	
EP 1108454A1		WO 200010665	Based on
CN 1304327A	August 23, 1999	1999CN-0807031	
KR2001052477A	December 1, 2000	2000KR-0713572	

INT-CL (IPC): A63 H 3/04; A63 H 3/36; A63 H 3/46; A63 H 9/00

ABSTRACTED-PUB-NO: WO 200010665A
BASIC-ABSTRACT:

NOVELTY - The doll has skeletal parts (7) buried in a trunk, arms (2) and legs (3). Each skeletal part has first metal cores (8) disposed at portions corresponding to joints and second hard-synthetic-resin cores (9) disposed at distal ends and portions between adjacent joints. The cores are connected together, with first cores covered with synthetic resin (6a) as required. Skeletons are covered with skin-muscle members (6) made of soft synthetic resin.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a method for manufacturing the doll.

USE - For child's play.

ADVANTAGE - Can be deformed in a natural shape by being bent at portions to be bent. Can be downsized.

DESCRIPTION OF DRAWING(S) - The figure shows a cross-section through the doll.

arms 2

legs 3

skin-muscle members 6

synthetic resin 6a

skeletal parts 7

first cores 8

second cores 9

CHOSEN-DRAWING: Dwg.8/27

TITLE-TERMS: ELASTIC DOLL SKELETON PART METAL CORE JOINT HARD SYNTHETIC RESIN DISTAL
END JOINT BURY TRUNK ARM LEG

DERWENT-CLASS: P36

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2000-168256

Full	Title	CIT.1	REV.1	CLS.1	REF.1	SEQ.1	ATT.1
NAW.1	EP.1						

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1998jp-0238337.prai.	1

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L5: Entry 1 of 4

File: JPAB

Dec 9, 1997

PUB-NO: JP409313742A

DOCUMENT-IDENTIFIER: JP 09313742 A

TITLE: CONNECTING DEVICE AND ITS MANUFACTURE, MOVING BODY AND ITS MANUFACTURE

PUBN-DATE: December 9, 1997

INVENTOR-INFORMATION:

NAME

COUNTRY

MIURA, KAZUNORI

INABA, KATSUICHI

YANAGISAWA, EIJIRO

ASSIGNEE-INFORMATION:

NAME

COUNTRY

BANDAI CO LTD

APPL-NO: JP08160764

APPL-DATE: May 31, 1996

INT-CL (IPC): A63 H 9/00; A63 H 3/16; A63 H 3/46

ABSTRACT:

PROBLEM TO BE SOLVED: To integrally mold a connecting device connected click-operably and integrally mold a moving body incorporated with the connecting device.

SOLUTION: A torso section 303 having shoulder connection sections 305 and lower arm sections 311 having elbow connection sections 313 are molded with the first synthetic resin raw material A in the first molding process. Shoulder hold sections 323 holding the shoulder connection sections of the torso section 303 and upper arm sections 321 having elbow hold sections 325 holding the elbow connections 313 of lower arm sections 311 are integrally molded with the second synthetic resin raw material B in the second process. Covering member covering the torso section 303, lower arm sections 311, and upper arm sections 321 molded in the first and second processes are integrally molded with a synthetic resin raw material C in the third process.

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
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☐ 2. Document ID: JP 05208077 A

L5: Entry 2 of 4

File: JPAB

Aug 20, 1993

PUB-NO: JP405208077A
DOCUMENT-IDENTIFIER: JP 05208077 A
TITLE: MANUFACTURE OF PLASTIC DOLL

PUBN-DATE: August 20, 1993

INVENTOR-INFORMATION:

NAME

COUNTRY

KITADE, TAKAO

MIURA, KAZUNORI

ASSIGNEE-INFORMATION:

NAME

COUNTRY

BANDAI CO LTD

APPL-NO: JP03360000

APPL-DATE: December 27, 1991

US-CL-CURRENT: 264/DIG.76; 446/330

INT-CL (IPC): A63H 9/00; A63H 3/46; B29C 69/00; B29D 31/00

ABSTRACT:

PURPOSE: To provide a manufacturing method of a plastic doll in which the number of parts and assembly manhour are reduced drastically by integrally molding the parts which constitute joint parts in molding and carrying out integral molding in the connection state of a trunk part, arm part, leg part, etc., having the above-described integral molded part as insertion part.

CONSTITUTION: A manufacturing process for a plastic doll consists of the first molding process in which a trunk part 1 having spherical joint parts 4 and 5, intermediate joint shaft 23 having a hinge joint part 23a, hand part 24 having a spherical joint part 25, knee joint shaft 33 having each hinge joint part 33a at both the edges, and a leg joint part 35 having a spherical joint part 35a are integrally molded and the second molding process in which an arm part 2 is developed laterally for the trunk part 1, having the molded part as insertion part, and both the crotches of the leg part 3 are integrally molded, being pushing-spread laterally.

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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☐ 3. Document ID: JP 3163255 B2, DE 19722820 A1, JP 09313742 A, US 5989658 A

L5: Entry 3 of 4

File: DWPI

May 8, 2001

DERWENT-ACC-NO: 1998-020248
DERWENT-WEEK: 200128
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TITLE: Assembly for model human body - has movable body which incorporates three

different synthetic resin parts, and movable body comprising torso with hip and knee joints

INVENTOR: INABA, S; MIURA, K ; YANAGISAWA, E

PATENT-ASSIGNEE:

ASSIGNEE

CODE

BANDAI CO

BANDN

PRIORITY-DATA: 1996JP-0160764 (May 31, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 3163255 B2	May 8, 2001		023	A63H009/00
DE 19722820 A1	December 4, 1997		045	A63H003/46
<u>JP 09313742 A</u>	December 9, 1997		021	A63H009/00
US 5989658 A	November 23, 1999		000	F16B002/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 3163255B2	May 31, 1996	1996JP-0160764	
JP 3163255B2		JP 9313742	Previous Publ.
DE 19722820A1	May 30, 1997	1997DE-1022820	
JP-09313742A	May 31, 1996	1996JP-0160764	
<u>US 5989658A</u>	April 22, 1997	1997US-0837900	

INT-CL (IPC): A63 H 3/16; A63 H 3/46; A63-H-9/00; F16 B 2/00

ABSTRACTED-PUB-NO: DE 19722820A

BASIC-ABSTRACT:

The assembly comprises a first part made of synthetic resin with integral connecting part on the outer surface of which are protuberances. A second part made of a second synthetic resin has an integrally moulded attachment part enclosing the outer surface of the connecting part. The first part is movable in relation to the second part.

The two parts are enclosed in a third, elastic part made of a third synthetic resin. The movable body comprises a torso with integral hip joint part from the outer surface of which protrude protuberances. A lower leg has an integral knee joint part from the outer surface of which protrude protuberances. A thigh has an integral hip joint part and integral knee joint part.

ADVANTAGE - The connected component can execute a locking motion and can be incorporated in a movable body.

ABSTRACTED-PUB-NO:

US 5989658A

EQUIVALENT-ABSTRACTS:

The assembly comprises a first part made of synthetic resin with integral connecting part on the outer surface of which are protuberances. A second part made of a second synthetic resin has an integrally moulded attachment part enclosing the outer surface of the connecting part. The first part is movable in relation to the second part.

The two parts are enclosed in a third, elastic part made of a third synthetic resin. The movable body comprises a torso with integral hip joint part from the outer

surface of which protrude protuberances. A lower leg has an integral knee joint part from the outer surface of which protrude protuberances. A thigh has an integral hip joint part and integral knee joint part.

ADVANTAGE - The connected component can execute a locking motion and can be incorporated in a movable body.

CHOSEN-DRAWING: Dwg.2/30

TITLE-TERMS: ASSEMBLE MODEL HUMAN BODY MOVE BODY INCORPORATE THREE SYNTHETIC RESIN PART MOVE BODY COMPRISE TORSO HIP KNEE JOINT

DERWENT-CLASS: P36 Q61

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1998-015353

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 4. Document ID: JP 2880345 B2, JP 05208077 A

L5: Entry 4 of 4

File: DWPI

Apr 5, 1999

DERWENT-ACC-NO: 1993-297488

DERWENT-WEEK: 199919

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TITLE: Mfg. plastic dolls with less parts - by integrally moulding body having spherical joints, intermediate joint shafts, hands, knee joint shafts, leg joint shafts etc.

PATENT-ASSIGNEE:

ASSIGNEE

BANDAI CO

CODE

BANDN

PRIORITY-DATA: 1991JP-0360000 (December 27, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2880345 B2	April 5, 1999		005	A63H009/00
<u>JP 05208077 A</u>	August 20, 1993		008	A63H009/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 2880345B2	December 27, 1991	1991JP-0360000	
JP 2880345B2		JP 5208077	Previous Publ.
JP05208077A	December 27, 1991	1991JP-0360000	

INT-CL (IPC): A63H 3/46; A63H 9/00; B29C 69/00; B29D 31/00; B29L 31/52

ABSTRACTED-PUB-NO: JP05208077A

BASIC-ABSTRACT:

Method comprises (1) integrally moulding the body having spherical joints,

intermediate joint shafts having a hinge joint, hands having a spherical joint, knee joint shafts having a hinge joint and leg joint shafts having a spherical joint into a joint component, and (2) after placing the joint component as an insert in another mould, adding another material having a lower m.pt. and greater thermal contraction with arms extended laterally against the body and both crotches of the legs opened laterally.

ADVANTAGE - Capable of extensively reducing the number of parts and the number of the assembly steps.

CHOSEN-DRAWING: Dwg.0/5

TITLE-TERMS: MANUFACTURE PLASTIC DOLL LESS PART INTEGRAL MOULD BODY SPHERE JOINT
INTERMEDIATE JOINT SHAFT HAND KNEE JOINT SHAFT LEG JOINT SHAFT

DERWENT-CLASS: A32 A86 P36

CPI-CODES: A11-B01; A12-F;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 017 ; P0000 ; S9999 S1434 Polymer Index [1.2] 017 ; N9999
N6440*R ; N9999 N6235 ; Q9999 Q9201 ; B9999 B5607 B5572 ; ND01 ; ND07 ; Q9999 Q7545
; B9999 B5550 B5505

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0229 0231 2459 2469 2545 2601 2667 2855 2857

Multipunch Codes: 017 03- 04- 331 456 476 541 547 604 608 670 678 696 720

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1993-131758

Non-CPI Secondary Accession Numbers: N1993-229343

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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jp-05208077\$.did. or jp-09313742\$.did. or jp-62053685\$.did.	4

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